

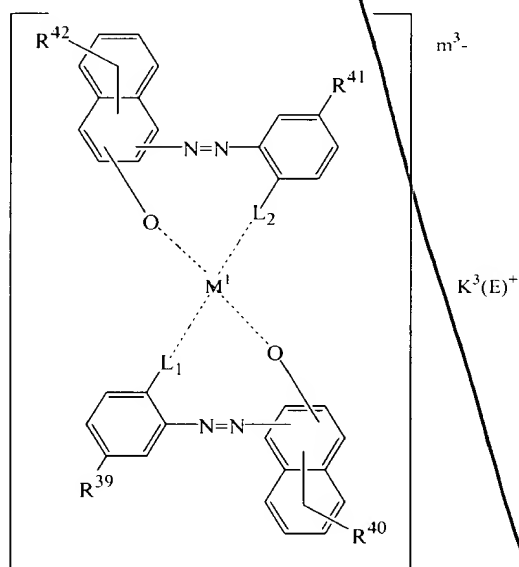
IN THE CLAIMS

1. A composition suitable for laser welding comprising a thermoplastic resin and a  
 5 1:2 type metallic azo complex dye.

2. A thermoplastic resin composition for laser welding comprising:

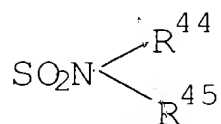
- 10 1) at least one thermoplastic resin; and,  
 2) a black colorant having at least one of the metal azo complex dyes of  
 the following formulas:

The formula [I]



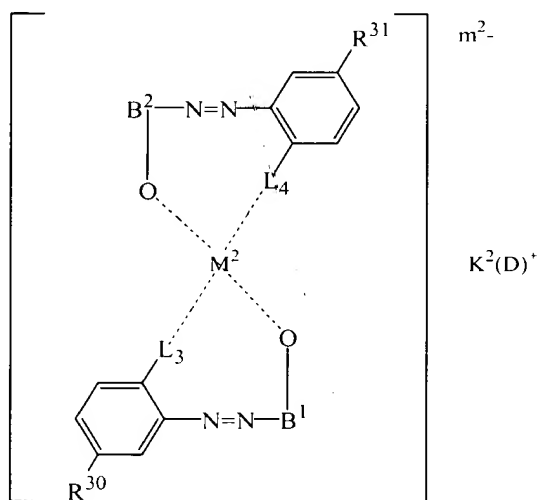
15 -----[I]

Wherein  $R^{39}, R^{41}$ , which may be the same or different, are Cl,



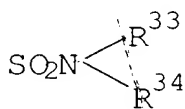
- , or  $\text{SO}_2\text{R}^{43}$ ,  $\text{R}^{44}$ ,  $\text{R}^{45}$ , which may be the same or different, are independently hydrogen atom, linear or branched C1-C4alkyl,  $\text{R}^{43}$  is linear or branched C1-C4alkyl,  $\text{R}^{40}$ ,  $\text{R}^{42}$ , which may be the same or different, are hydrogen, linear or branched C1-C18alkyl group, linear or branched C2-C18alkenyl group, sulfonamide group, carboxyl group, mesyl group, hydroxyl group, C1-C18 alkoxy group, acethylamino group, benzoylamino group, a halogen atom or  $-\text{CONH}-\text{R}^{46}$ ,  $\text{R}^{46}$  is functional group selected from unsubstituted or substituted linear or branched C1-C18alkyl or unsubstituted substituted C6-C18 aryl group,  $\text{L}_1$  and  $\text{L}_2$  are independently O or  $\text{COO}$ ,  $(\text{E})^+$  are  $\text{H}^+$ ; cation of alkali metal, ammonium ion, cations of organic amine including
- 10 aliphatic primary, secondary and ternary amines, quaternary ammonium ion.
- ,  $\text{K}^3$  is an integer,  $m^3$  is 0, 1 or 2,
- $\text{M}^1$  is a kind of metals, preferably metals having coordination numbers of from 2 to 4, more preferably trivalent metal such as Cr, Fe, Cu;

15 The formula [II]



-----[II]

wherein  $R^{30}$  and  $R^{31}$ , which may be the same or different, are Cl,



$\text{SO}_2R^{32}$ , or H,

$R^{33}$  and  $R^{34}$ , which may be the same or different, are independently hydrogen atom,

5 linear or branched C1-C4 alkyl,

$R^{32}$  is linear or branched C1-C4 alkyl,  $L_3$  and  $L_4$  are independently O or COO,

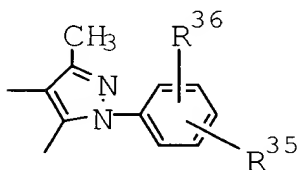
(D)<sup>+</sup> is hydrogen ion, cation of alkali metals, ammonium ion, cations of organic amine including aliphatic primary, secondary and tertiary amines, quaternary ammonium ion,

10  $K^2$  is an integer,  $m^2$  is 0, 1 or 2,

$M^2$  is metals of atomic numbers of from 2 to 4 such as

Zn, Sr, Cr, Al, Ti, Fe, Zr, Ni, Co, Mn, B, Si and Sn, preferably metal of atomic numbers of 3 such as Cr, Co, Cu, Ni, Al.

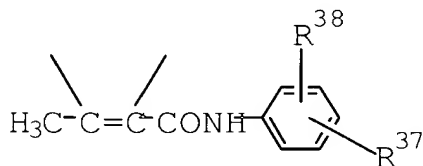
B is represented by formula



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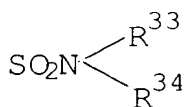
-----[III]

or



20 -----[IV]

wherein  $R^{35}$  and  $R^{37}$ , which may be the same or different, are Cl,



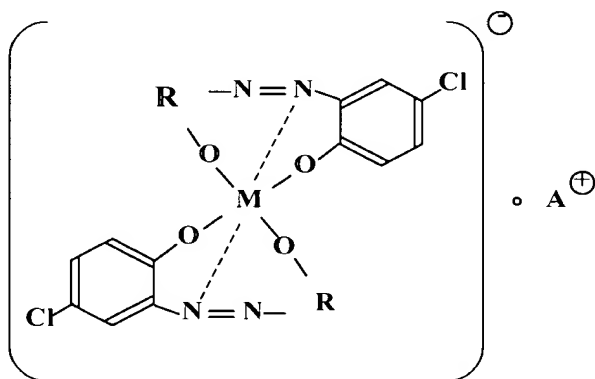
,  $SO_2R^{32}$ , or H,

$R^{33}$  and  $R^{34}$ , which may be the same or different, are independently hydrogen atom,

- 5 linear or branched C1-C4 alkyl, and  $R^{36}$  and  $R^{38}$ , which may be the same or different, are independently hydrogen atom, linear or branched C1-C18 alkyl, carboxyl, hydroxyl, C1-C18 alkoxy, amino or halogen atoms.

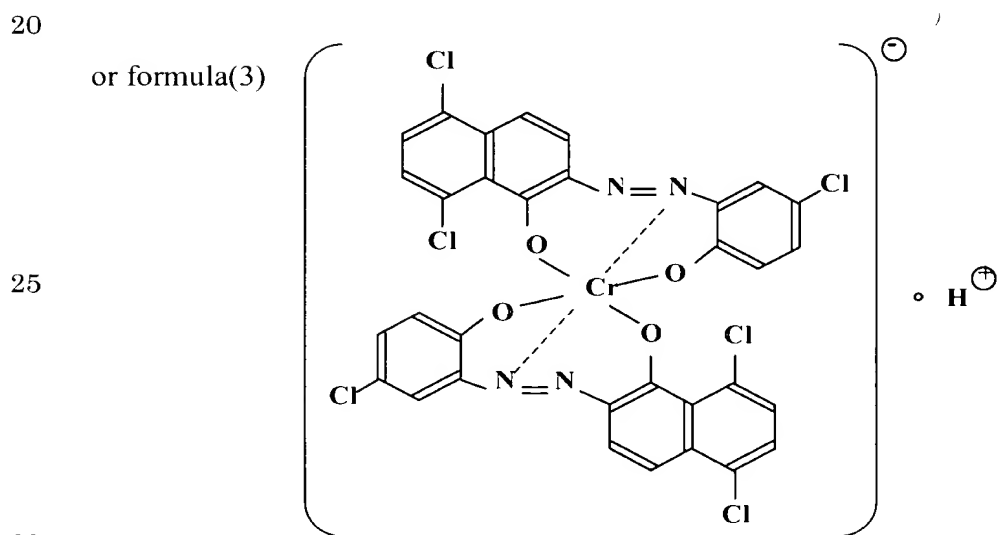
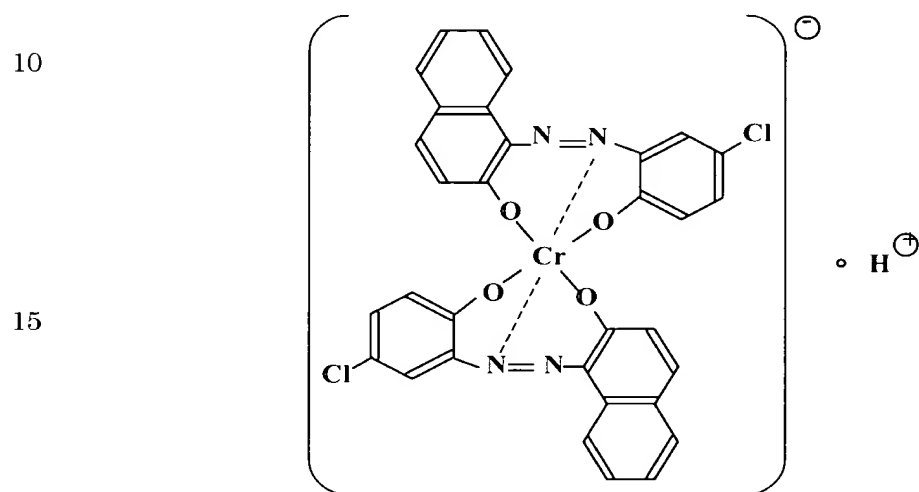
3. The composition of Claim 1 wherein said 1:2 type metallic azo complex dye is  
10 selected from the group consisting of:

formula (1)



Wherein R is a residual group of a coupling agent, M is divalent or trivalent metal, and A is hydrogen, aliphatic amine with 4 to 18 carbon atoms, or alkylene oxide added amine;

5 or formula (2)





4. The composition of Claim 2 wherein said 1:2 type metallic azo complex dye is selected from formula (2) or formula (3) .
- 5 5. The composition of Claim 2 wherein said 1:2 type metallic azo complex dye is present in an amount of from 0.01 to 1% by weight based upon the total weight of the composition.
6. The composition of Claim 1 further comprising glass fiber or glass flake.
- 10 7. The composition of Claim 1 wherein said thermoplastic resin is a polyamide resin.
8. The composition of Claim 1 wherein said thermoplastic resin is a polyamide copolymer.
- 15 9. The composition of Claim 1 wherein said thermoplastic resin is a blend of polyamide resins.
- 20 10. A shaped article of the composition of Claim 1.

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